

DWPI

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DERWENT-WEEK: 199931

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TITLE: Antenna installation alignment aid for satellite  
broadcasting - has  
remote control unit enabling installer to select channels on  
set-top satellite  
tuner while adjusting antenna and viewing picture quality on  
outdoor TV monitor

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PRIORITY-DATA: 1997JP-0298864 (October 30, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	
PAGES	MAIN-IPC		
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H04N 017/00			

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO
APPL-DATE		
JP11136708A	N/A	1997JP-0298864
October 30, 1997		

INT-CL (IPC): G05D003/00; H01Q003/02 ; H04N005/00 ;  
H04N005/44 ;

H04N007/20 ; H04N017/00 ; H04N017/04

ABSTRACTED-PUB-NO: JP11136708A

BASIC-ABSTRACT: NOVELTY - The signals from the antenna and from  
the installer's  
remote control are modulated and fed to the satellite receiver  
via an indoor  
test unit. The remote control signals are supplied to the  
receiver by a  
light-emitting unit being placed near it which is connected to  
the indoor test  
unit. This unit converts the AV output of the receiver to a  
channel in the  
VHF/VHF band and feeds it back to the outdoor unit where it is  
displayed on a  
small monitor. The technician then alters the antenna position  
until a clear  
picture is obtained.

USE - For setting-up an antenna to receive satellite  
broadcasting.

ADVANTAGE - Remote control of the tuner operations and local  
monitor enable  
installer to optimise antenna position.

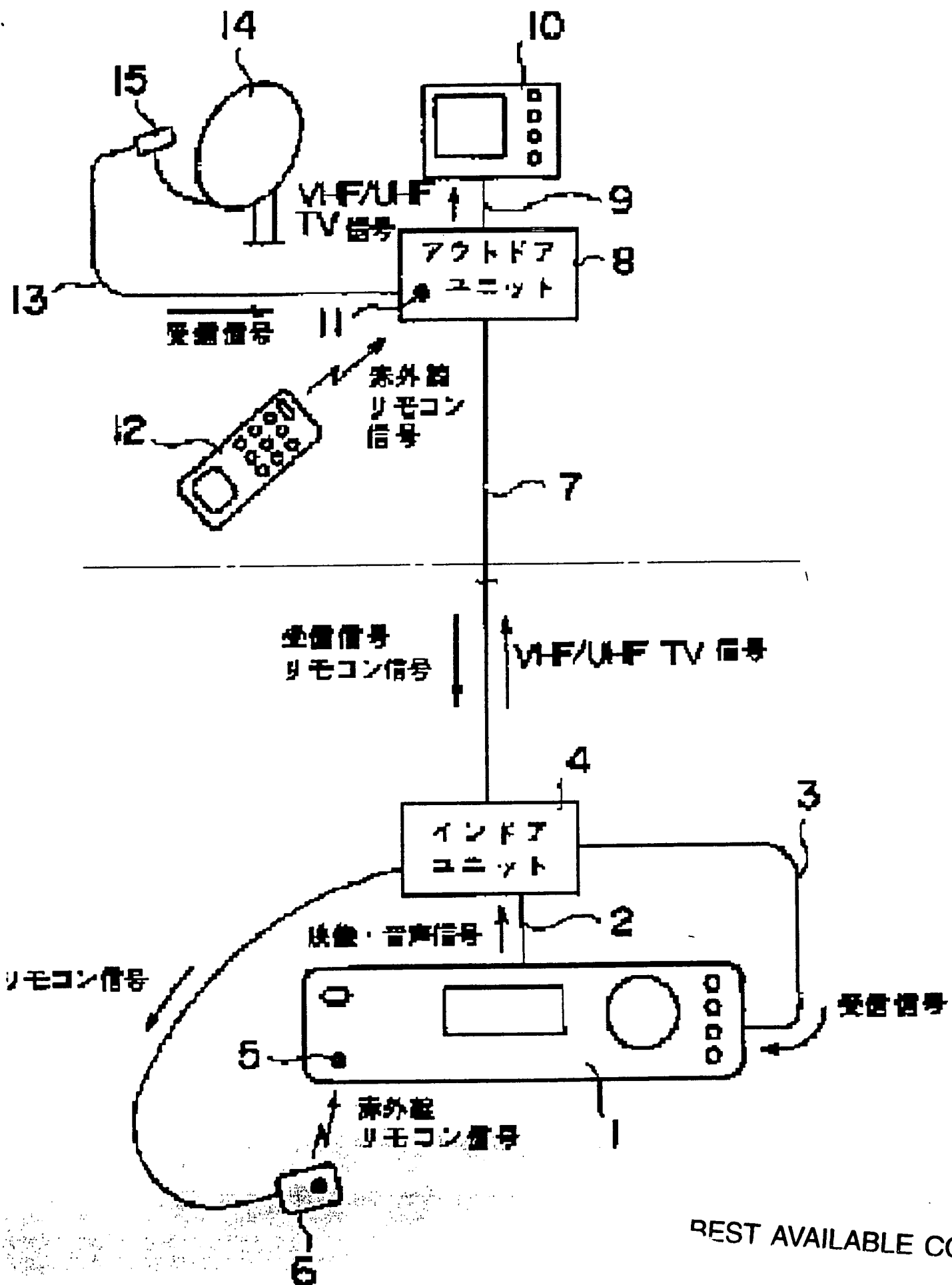
DESCRIPTION OF DRAWING(S) - The figure shows the schematic block diagram of the alignment aid used with a satellite TV receiver.

(1) Tuner; (3) Coaxial cable; (4) Indoor unit; (6) Light emission unit; (8) Outdoor unit; (10) Small sized TV monitor; (14) Antenna for satellite broadcast reception.

CHOSEN-DRAWING: Dwg.1/4

DERWENT-CLASS: W02 W03

EPI-CODES: W02-B08A5; W03-A02C5; W03-A16A; W03-A18A9;



## ANTENNA DIRECTION ADJUSTING DEVICE

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Inventor(s): SUGIYAMA JUN; HIGUCHI HIROBUMI  
Applicant(s):: YAGI ANTENNA CO LTD  
Requested Patent: JP11136708  
Application Number: JP19970298864 19971030  
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IPC Classification: H04N17/00 ; H01Q3/02 ; H04N5/00 ; H04N5/44 ; H04N7/20 ; H04N17/04  
EC Classification:  
Equivalents:

### Abstract

**PROBLEM TO BE SOLVED:** To adjust a direction of an antenna correctly by confirming a reception state at an antenna installation site and controlling remotely a tuner placed on a remote site.  
**SOLUTION:** An indoor unit 4 and a light emitting unit 6 are placed on the site of a tuner 1, an outdoor unit 8 and a compact television monitor 10 are placed on the installation site of an antenna 14. A remote control signal is sent from the outdoor unit 8 to the indoor unit 4 by the operation of the remote controller 1 and then the light emitting unit 6 generates an infrared ray remote control signal to activate the tuner 1. The indoor unit 4 modulates an antenna level display video and a television video or the like outputted from the tuner 1 into a television signal of a VHF/UHF band to output. The outdoor unit 8 displays the television signal sent from the indoor unit 4 on the compact television monitor 10. An antenna adjustment personnel adjusts the direction of the antenna while observing the antenna level display video or the like displayed on the monitor 10.

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